

ATGTCCTTCTATCCCTGCAACACCAACCGCCTCGGTACGGAGTGGAATC  
GGCGACGGTGGCGGAGTGCTCTTCAGCGGGGCTCCTGGCAACCTGC  
TGGCCCTAGCGCTGCTGGCAGCTCGGGGCTCGGGTCTGCGGCGCGC  
CCGACGCCCTCAGTCTTCTACGTGCTGGTGTGCGGCTTGACGGTACAGA  
CCTGTAGGCAAGTGCCTGGTGAGCCCGGTGGTGTGGCTGCCTATGCGC  
AAACCGGAGCCTCAGGGGACTGGCACCCGCGCAGGCGACTCGCTGTGC  
CAAGCCTTCGCCTTCATCATGTCTTCTTTGGGCTCGCCTCGACGCTCCA  
GCTCTTAGCCATGGCCCTAGAGTGTGGCTGTCCCTGGGACACCCCTTCT  
TCTACGAGCGCATCACTGTGCGCGGCGGTGCTCGTGCGCGCGGCT  
GTGGCGCCTTCAGCCTGGCTTCTGCGCGCTCCCTTCGTGGGCTTCGG  
GAACTTTGTGCACTGTCCCGGCACCTGGTGTCTTCTCCAGATGATCT  
CCGGGACGACTCGCCGTCGGTGAAGGGCTACTCGGTGCTGTACTCCACC  
CTCATGGCGCTGTTGGTCTCGCCATCGTGTGTGCAACCTGGGCGCCAT  
GCGCAACCTCTACACCATGCACAGCGCCTGCGACGGCACACGCGCTGCT  
GCAGCCTCCGGGACCGCGGGGAGGGCTTCCGCAATCCTTGGAGGAG  
CTGGACCACTGTGCTGTGGCCCTCATGACCGTGTCTTCAACCATGTG  
CACTCTGCCGTTAGTTTATCGCGCTTACTATGGAGCATTTAAAGCTGTG  
AAGAGGAGCCCGACGACCTCCTAGCCTTGGCTTTTCTCTGTGATTTCA  
ATCGTGGACCCCTTGGAATCTTTATCATTTTTCAGAACTTCAGTATTTTCGGAT  
GTTTTTTCACAAGATTTTCATAAGACCTCTTCTTACCGAAAACCTGGCACT  
GCCACTTCTACCAAACTAACGTGGAATCCAGTCTGTGA

**Figure 1**

MSFYPCNTTASVRSGNSATVGGVLFSA GLLGNLLALALLARSGLGSCRPRPQPSVFYVLCGLT  
VTDLLGKCLVSPVVLAAAYA QNRSLRGLAPA QGDSLCAFAFIMSFGLASTLQLLAMALECWL  
SLGHPFFYQRHITVRRGVLVAPA VGAFSLAFCA LPFVGFGNFVQYCPGTWCFFQMISGDDSPSV  
KGYSVLYSTLMALLVLAIVLCNLGAMRNLYTMHQRLRRHTRCCSLRDRAGEAFPQSLEELDHL  
LLLALMTVLFTMCTLPLVYRAYYGAFKA VEEPPDDLALRFLSVISIVDPWIFIIFRTSVFRMFFH  
KIFIRPLL YRNWHCHFYQTNVSSL

**Figure 2**

1	10	20	30	40	50	60	70	80	90	100	Ha_PTDR (NM_000953)
1	10	20	30	40	50	60	70	80	90	100	Rn_PTDR (NM_022241)
1	10	20	30	40	50	60	70	80	90	100	Mm_PTDR (NM_008962)
1	10	20	30	40	50	60	70	80	90	100	Op_PTDR.seq
101	110	120	130	140	150	160	170	180	190	200	Ha_PTDR (NM_000953)
98	110	120	130	140	150	160	170	180	190	200	Rn_PTDR (NM_022241)
98	110	120	130	140	150	160	170	180	190	200	Mm_PTDR (NM_008962)
95	110	120	130	140	150	160	170	180	190	200	Op_PTDR.seq
201	210	220	230	240	250	260	270	280	290	300	Ha_PTDR (NM_000953)
198	210	220	230	240	250	260	270	280	290	300	Rn_PTDR (NM_022241)
198	210	220	230	240	250	260	270	280	290	300	Mm_PTDR (NM_008962)
186	210	220	230	240	250	260	270	280	290	300	Op_PTDR.seq
301	310	320	330	340	350	360	370	380	390	400	Ha_PTDR (NM_000953)
298	310	320	330	340	350	360	370	380	390	400	Rn_PTDR (NM_022241)
298	310	320	330	340	350	360	370	380	390	400	Mm_PTDR (NM_008962)
286	310	320	330	340	350	360	370	380	390	400	Op_PTDR.seq
401	410	420	430	440	450	460	470	480	490	500	Ha_PTDR (NM_000953)
398	410	420	430	440	450	460	470	480	490	500	Rn_PTDR (NM_022241)
398	410	420	430	440	450	460	470	480	490	500	Mm_PTDR (NM_008962)
386	410	420	430	440	450	460	470	480	490	500	Op_PTDR.seq
501	510	520	530	540	550	560	570	580	590	600	Ha_PTDR (NM_000953)
498	510	520	530	540	550	560	570	580	590	600	Rn_PTDR (NM_022241)
498	510	520	530	540	550	560	570	580	590	600	Mm_PTDR (NM_008962)
486	510	520	530	540	550	560	570	580	590	600	Op_PTDR.seq
601	610	620	630	640	650	660	670	680	690	700	Ha_PTDR (NM_000953)
598	610	620	630	640	650	660	670	680	690	700	Rn_PTDR (NM_022241)
598	610	620	630	640	650	660	670	680	690	700	Mm_PTDR (NM_008962)
586	610	620	630	640	650	660	670	680	690	700	Op_PTDR.seq
701	710	720	730	740	750	760	770	780	790	800	Ha_PTDR (NM_000953)
698	710	720	730	740	750	760	770	780	790	800	Rn_PTDR (NM_022241)
698	710	720	730	740	750	760	770	780	790	800	Mm_PTDR (NM_008962)
686	710	720	730	740	750	760	770	780	790	800	Op_PTDR.seq
801	810	820	830	840	850	860	870	880	890	900	Ha_PTDR (NM_000953)
798	810	820	830	840	850	860	870	880	890	900	Rn_PTDR (NM_022241)
798	810	820	830	840	850	860	870	880	890	900	Mm_PTDR (NM_008962)
771	810	820	830	840	850	860	870	880	890	900	Op_PTDR.seq
901	910	920	930	940	950	960	970	980	990	1000	Ha_PTDR (NM_000953)
889	910	920	930	940	950	960	970	980	990	1000	Rn_PTDR (NM_022241)
889	910	920	930	940	950	960	970	980	990	1000	Mm_PTDR (NM_008962)
862	910	920	930	940	950	960	970	980	990	1000	Op_PTDR.seq
1001	1010	1020	1030	1040	1050	1060	1070	1080			Ha_PTDR (NM_000953)
989	1010	1020	1030	1040	1050	1060	1070	1080			Rn_PTDR (NM_022241)
989	1010	1020	1030	1040	1050	1060	1070	1080			Mm_PTDR (NM_008962)
953	1010	1020	1030	1040	1050	1060	1070	1080			Op_PTDR.seq

Figure 3

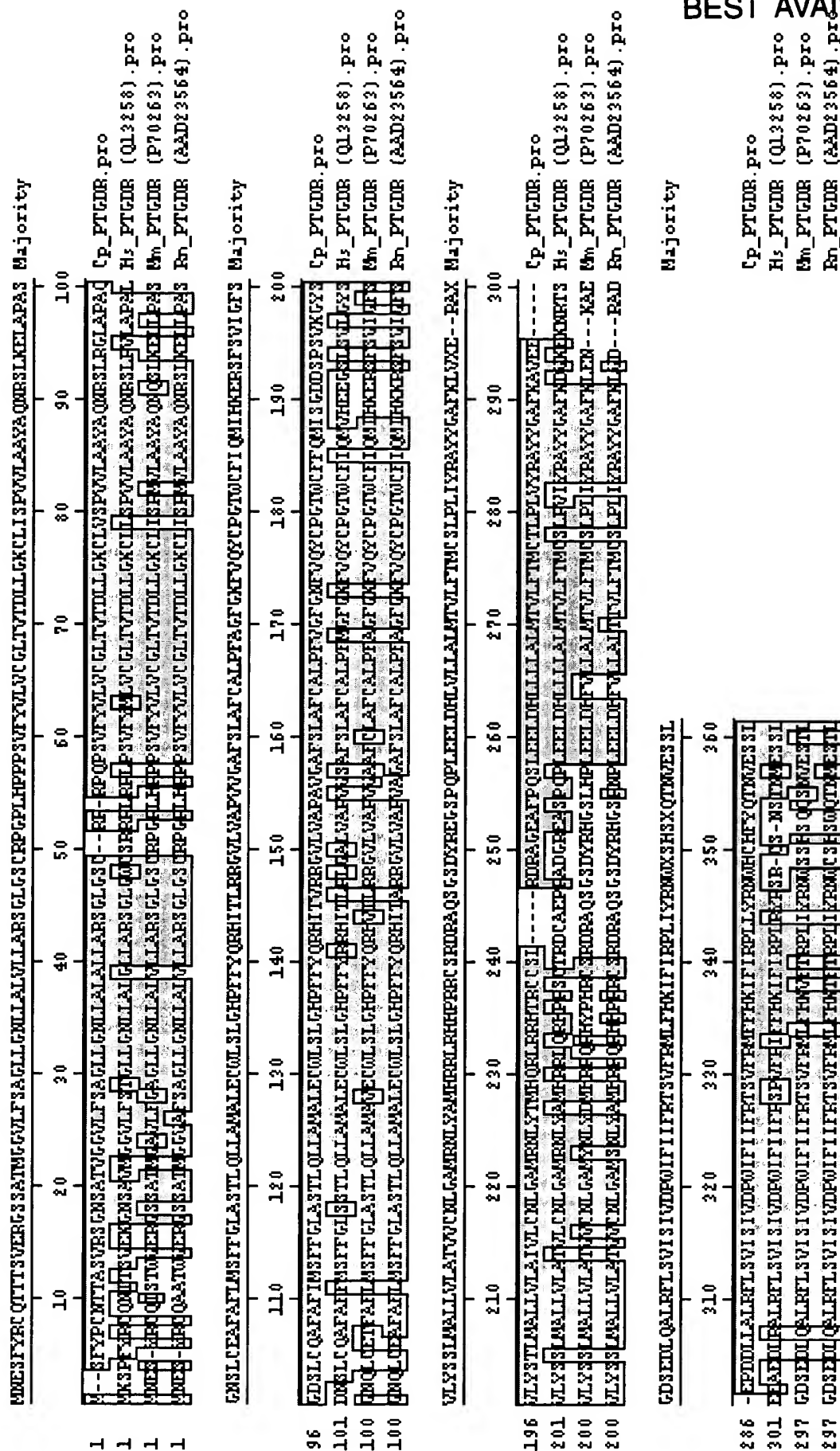


Figure 4

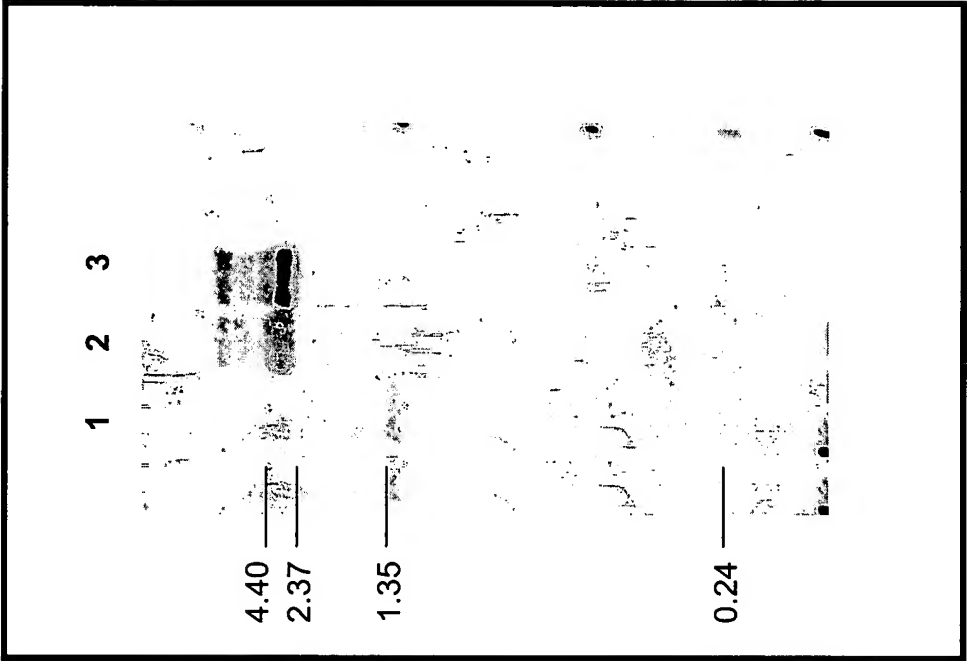


Figure 5

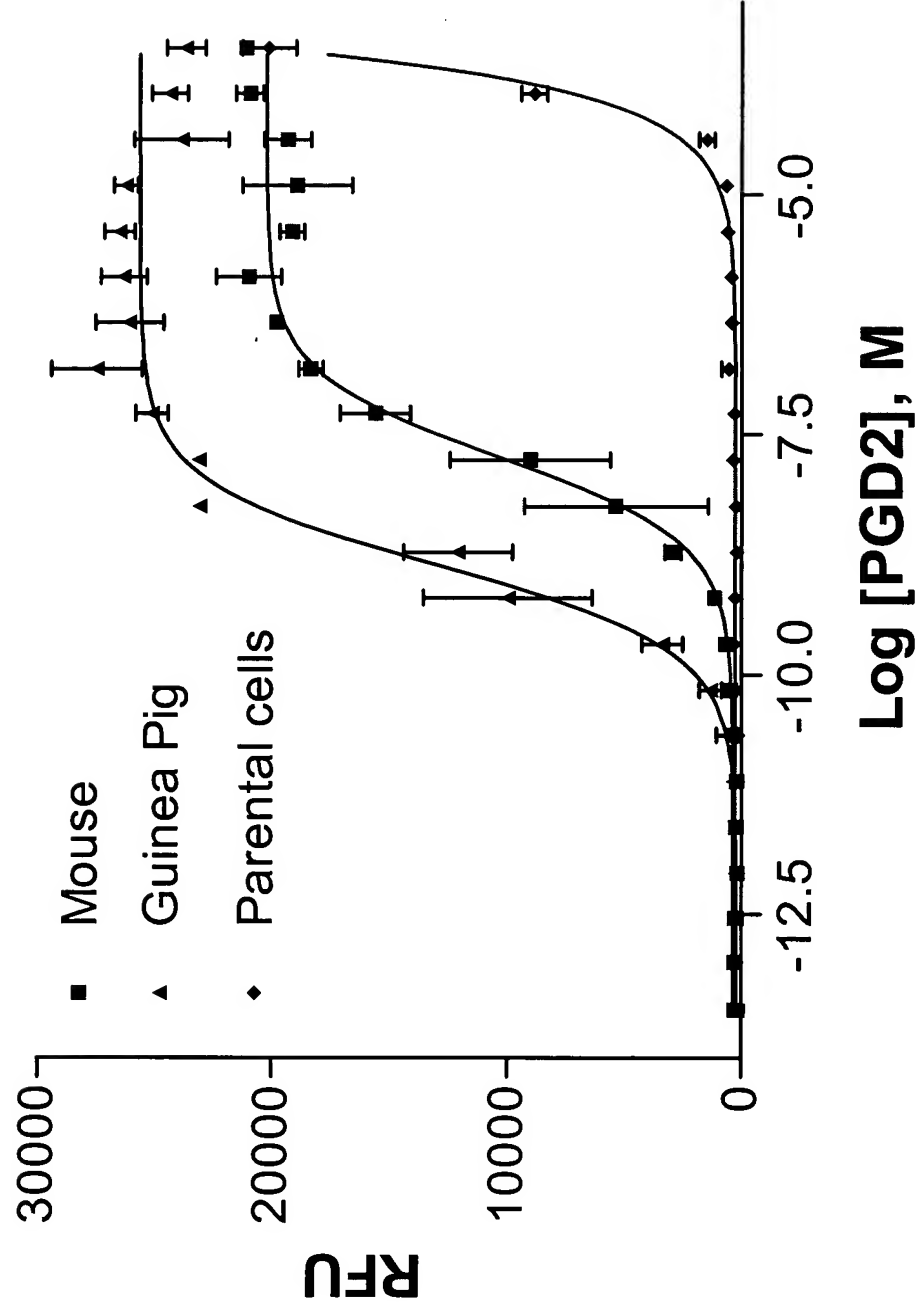


Figure 6

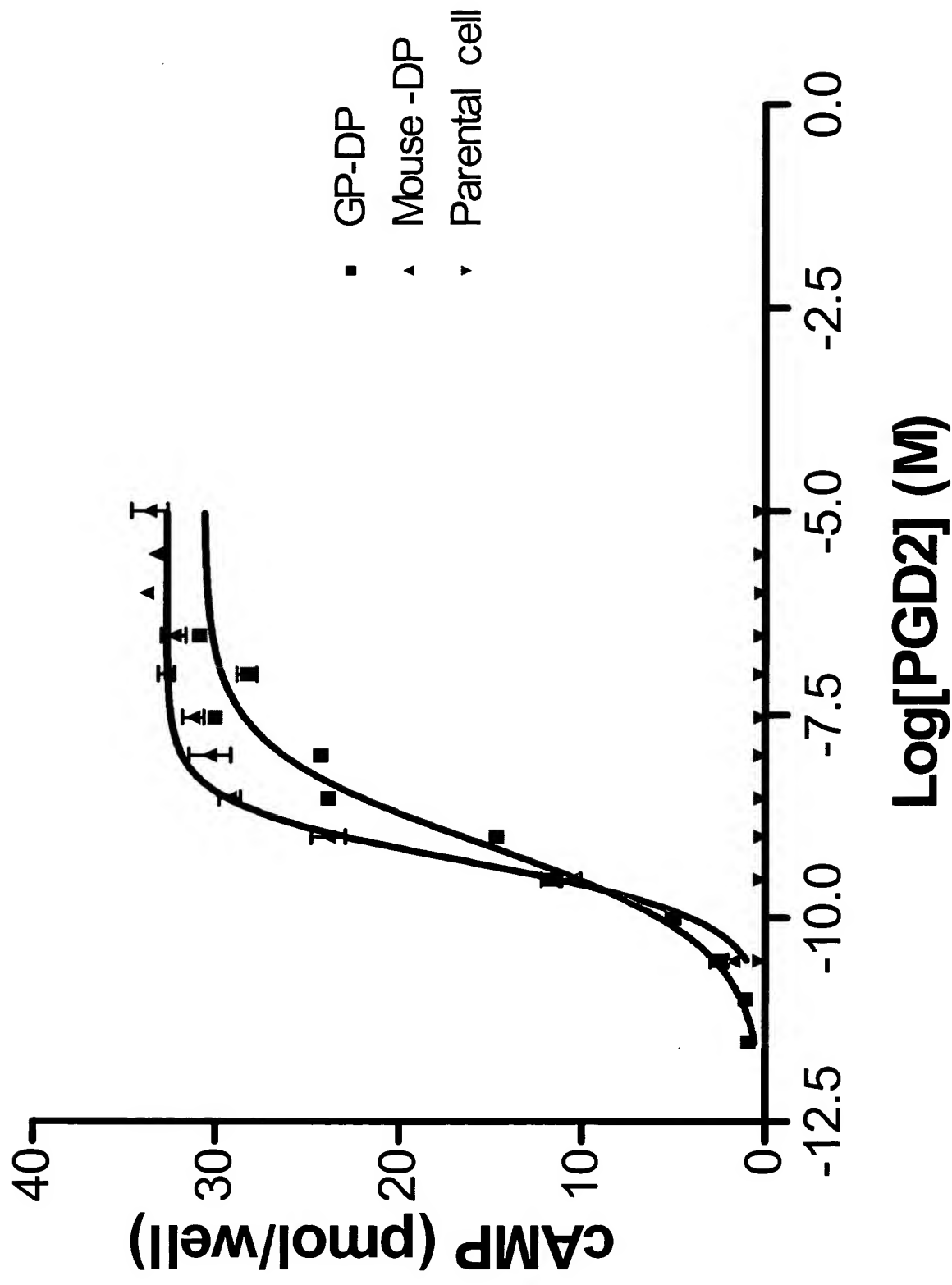


Figure 7